

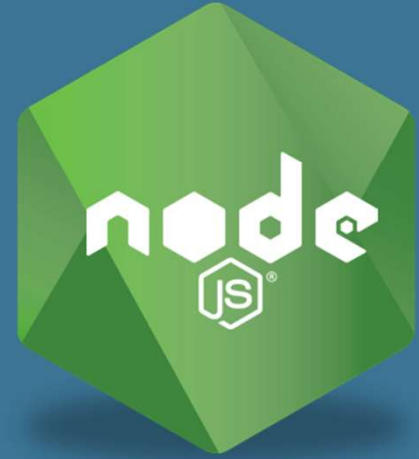
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PART – 1

- Introduction
- Environment Setup
- Project Setup



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Crash Course

Prerequisites

You should be familiar with:

➤ **JavaScript** (Basics like variables, functions, callbacks etc.,)

JavaScript



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Contents

- **Introduction**
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Introduction

- Node JS is an **asynchronous, event-driven, non-blocking javascript runtime environment**. It is designed to build scalable network applications.
- It is developed by **Ryan Dahl in 2009**.
- Initially it supported only in Linux and Mac OS. Now, it's available in every OS.



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Introduction

- Open source
- It supports databases like MongoDB, MySQL, PostgreSQL etc.,
- We can do many backend functionalities like creating REST APIs, integrating payment gateways, video calling, audio calling, live streaming etc.,



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Introduction

- It depends on V8,libuv,llhttp,c-ares,OpenSSL,zlib and npm,gyp,gtest libraries and tools.
- V8 is Google Chrome JavaScript Engine.
- Zlib used to compress or decompress sync and async files/streams.
- npm used to build packages and used to install packages.



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Introduction

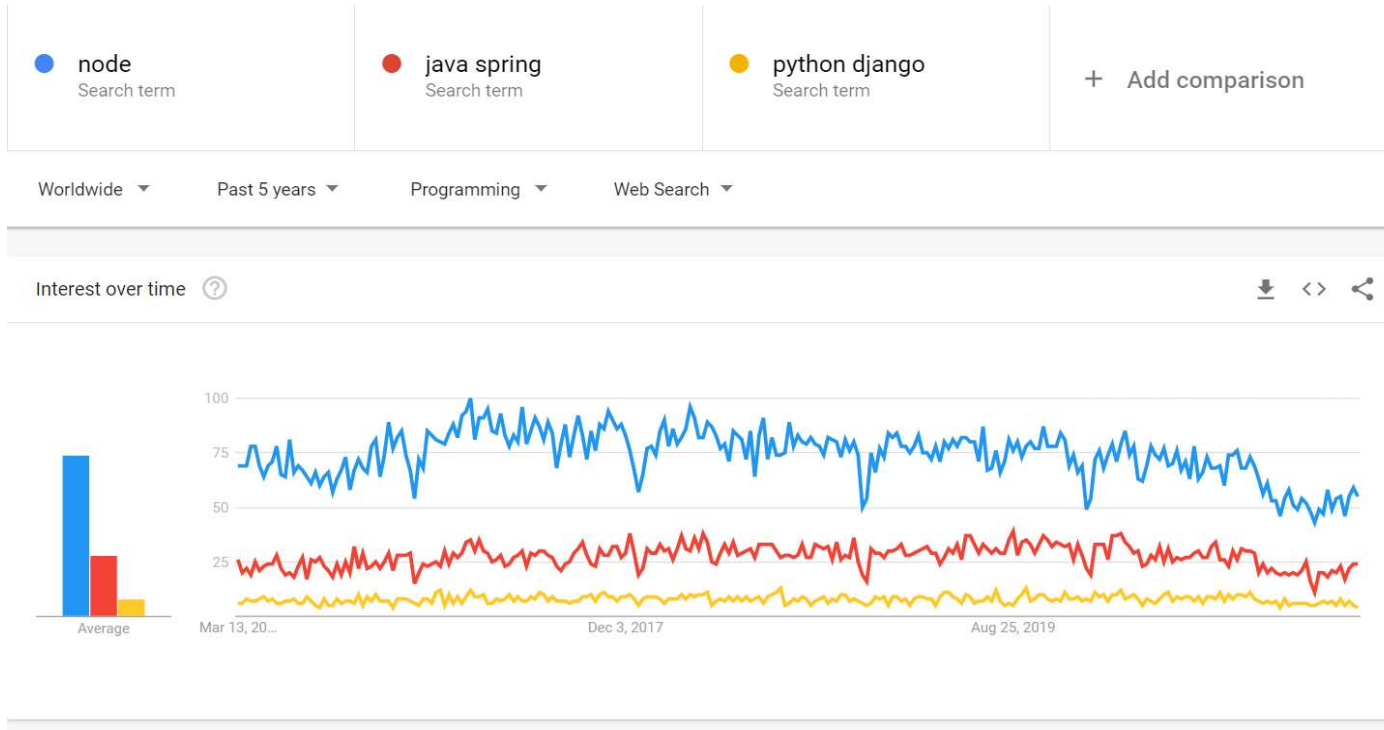
- It supports html, css, different rendering languages like ejs, pug etc.,
- Fastest server setup among all the existing backend languages.
- Trending technology having more job opportunities as backend/Nodejs/full stack developers.
- Simple, Robust and Scalable.



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Introduction

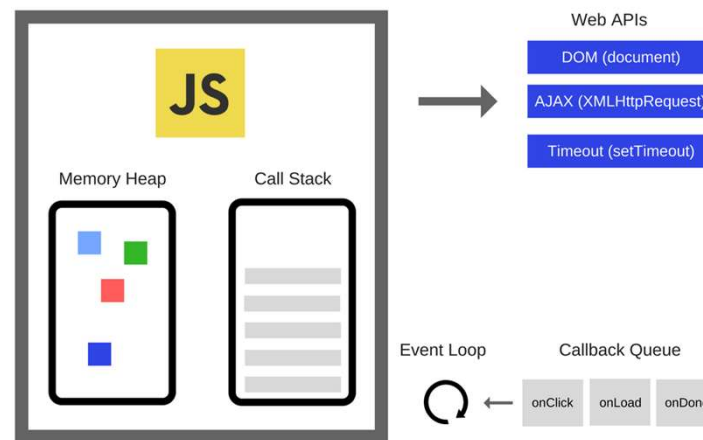


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JavaScript Engine Overview

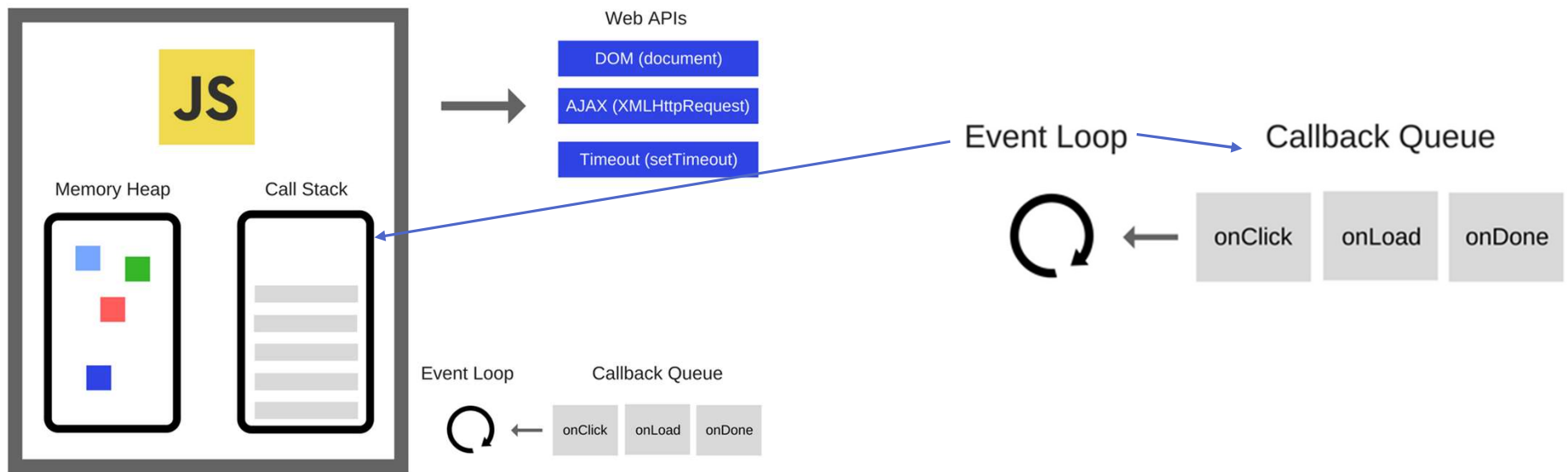
- Node JS is an **asynchronous, event-driven, non-blocking javascript runtime environment**. It is designed to build scalable network applications.



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Event Loop



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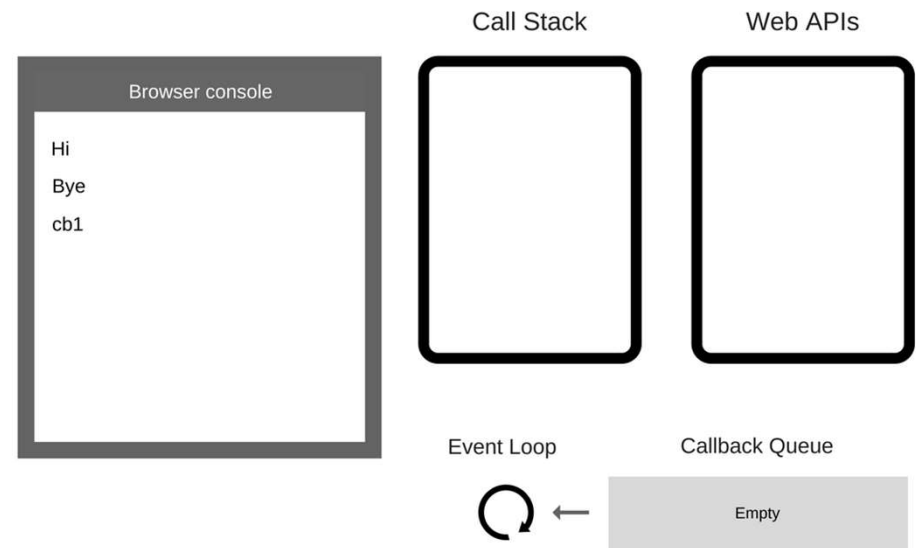


JavaScript Engine Practical

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Example.js

```
1 console.log('Hi'); 1
2 setTimeout(function cb1() {
3   console.log('cb1'); 2
4 }, 5000);
5 console.log('Bye'); 3
```



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Environment Setup

- Install Latest Stable (LTS) Node JS Software.
<https://nodejs.org/download>
- It supports many operating systems (mac,linux,windows etc.,)
- It can be installed in many different ways.
- npm will be installed along with node.
- npm stands for node package manager.



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Project Setup

- Create a folder
- **npm init** (for initializing the project)
- package.json:
 - **Package name:** name can only contain URL-friendly characters. Name can no longer contain capital letters.
 - **Version:** 1.0.0 (default), you can change it later.
 - **Description:** Project Description
 - **Entry point:** index.js (default), you can change it later.
 - **Test command:** (optional)
 - **Git repository:** (optional)
 - **Keywords:** (optional)
 - **Author:** (optional)
 - **License:** ISC (default), you can change it later.
 - Review and Enter for creating package.json file.
- Create Server and Display Hello World!
- REPL (Read-Eval-Print-Loop)



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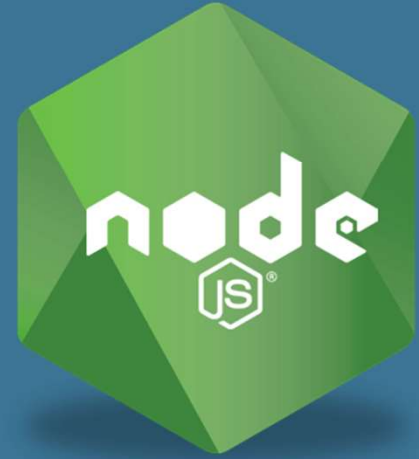
PART – 2

Next part

- Modules
- Export, Require
- Import, Export



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